

# Alexander Quispe

MSc. QUANTITATIVE ECONOMICS · LMU MUNICH

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## Education

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### Ludwig Maximilian University of Munich

MSc. QUANTITATIVE ECONOMICS - PHD TRACK

- **Advisors:** Prof. Dietmar Harhoff and Uwe Sunde

*Munich, Germany*

*2018 - 2020*

### Massachusetts Institute of Technology

VISITING STUDENT, APPLIED ECONOMICS GROUP

- **Host:** Prof. Claudia Steinwender

*Boston, MA*

*Jan 2020 - Jun 2020*

### Pontificia Universidad Católica Del Perú

BS ECONOMICS

- GPA 4 - Magna cum laude

*Lima, Peru*

*2013 - 2017*

## Visiting Positions

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2019-2020 **Visiting Scholar at Harvard University**, Laboratory for Innovation Science.

## Research Experience

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2020-2022 **The World Bank**, Consultant

2019-2020 **MIT Sloan School of Management**, Research Assistant to Prof. Claudia Steinwender

2018-2019 **Max Planck Institute for Innovation and Competition**, Research Assistant to Prof. Dietmar Harhoff

2018-2019 **Dept. Economics LMU Munich**, Research Assistant to Prof. Uwe Sunde

2017-2018 **Dept. Economics Yale University**, Research Assistant to Phd. Max Perez-Leon

2018 **Dept. Economics PUCP**, Full Time TA and RA

2016 **United Nations Development Program (UNDP)**, Intern

## WORKING PAPERS

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**High Dimensional Metrics in Julia** with V. Chernozhukov, C. Hansen and M. Splinder.

**Estimating Heterogeneous Effects of Cash Bonuses in Teacher Retention with Machine Learning: Evidence from Peru** with S. Zhang and R. Tang.

**Fertility and Education Patterns Across Different Phases of Development** - Master Thesis.

## Econometric Packages

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**HDMJL.jl** - Julia Package of methods for estimation in high-dimensional models based on Chernozhukov et al. (2016)

**Sensemakr.jl** - Julia package for sensitivity analysis tools based on Cinelli et al. (2020)

## Books

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**Inference on Causal and Structural Parameters using ML and AI with R, Python and Julia**, used in the course 14.38 at MIT.

**Machine Learning and Causal Inference using Python**, used in the course MGTECON-634 at Stanford.

## PhD Courses

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### STANFORD UNIVERSITY

2021 **Practical Machine Learning**, Prof. Alex Smola

### MIT ECONOMICS

2021 **Inference on Causal and Structural Parameters Using ML and AI**, Prof. Victor Chernozhukov  
2020 **Labor Economics II**, Prof. David Autor & Arin Dube. Grade: 92.5  
2019 **Labor Economics I**, Prof. Josh Angrist & Daron Acemoglu.  
2019 **Nonlinear Econometrics**, Prof. Alberto Abadie & Whitney Newey

### BAVARIAN DOCTORAL PROGRAM

2019 **Advanced Panel Data Methods**, Jeffrey M. Wooldridge  
2019 **Econometric Methods to Estimate Causal Effects**, Jeffrey Smith

## Awards, Fellowships, & Grants

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2021	<b>Award for Excellence in Teaching</b> , PUCP	
2020	<b>Emergency Grant</b> , LMU Munich	€ 500
2019	<b>PROSA-LMU Stipendium</b> , DAAD to conduct research at Harvard University	€ 2,300
2017-2018	<b>DAAD Kontakt Stipendium</b> , German Academic Exchange Service	€ 1,400
2017	<b>Student Exchange Scholarship</b> , PUCP, to study in Germany	\$ 5,000
2012-2016	<b>Full Scholarship for academic excellence in five consecutive years</b> , PUCP	

## Teaching Experience

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2022	<b>Causal Trees and Causal Forest Workshop</b> , Lecturer	<i>World Bank</i>
2021-2022	<b>Machine Learning and Causal Inference</b> , Lecturer	<i>PUCP</i>
Fall 2018	<b>Advanced Econometrics</b> , Lecturer	<i>UNMSM</i>
2018	<b>Advanced Econometrics, Macroeconomics 1, Advanced Microeconomics</b> , TA	<i>PUCP</i>
2016-2017	<b>Advanced Microeconomics, Advanced Macroeconomics</b> , TA	<i>PUCP</i>

## Skills

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**Programming:** Python, R, Julia, Matlab, Linux, Git, HTML, Java

**Other:** Stata, Github, OTREE, LaTeX/Lyx, ArcGis, SublimeText3, SQL

**Languages:** Spanish –Native language, English-Advanced level, German-Basic Level.

## References

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1. Prof. Victor Chernozhukov. Professor, Department of Economics & Center for Statistics, MIT, USA. Email: vchern@mit.edu. Phone: (617) 253-4767.
2. Prof. Dietmar Harhoff. Director of the Max Planck Institute for Innovation and Competition. Email: dietmar.harhoff@ip.mpg.de. Phone: +49 89 24246-550.
3. Prof. Claudia Steinwender. Department of Economics LMU. Email: claudia.steinwender@econ.lmu.de. Phone: +49 89 2180-2874.
4. Prof. Uwe Sunde. Department of Economics LMU. Email: uwe.sunde@econ.lmu.de. Phone: +49 89 2180-1280.